PARASITOLOG

LAB 1ST TERM

د/ صبورة

37A
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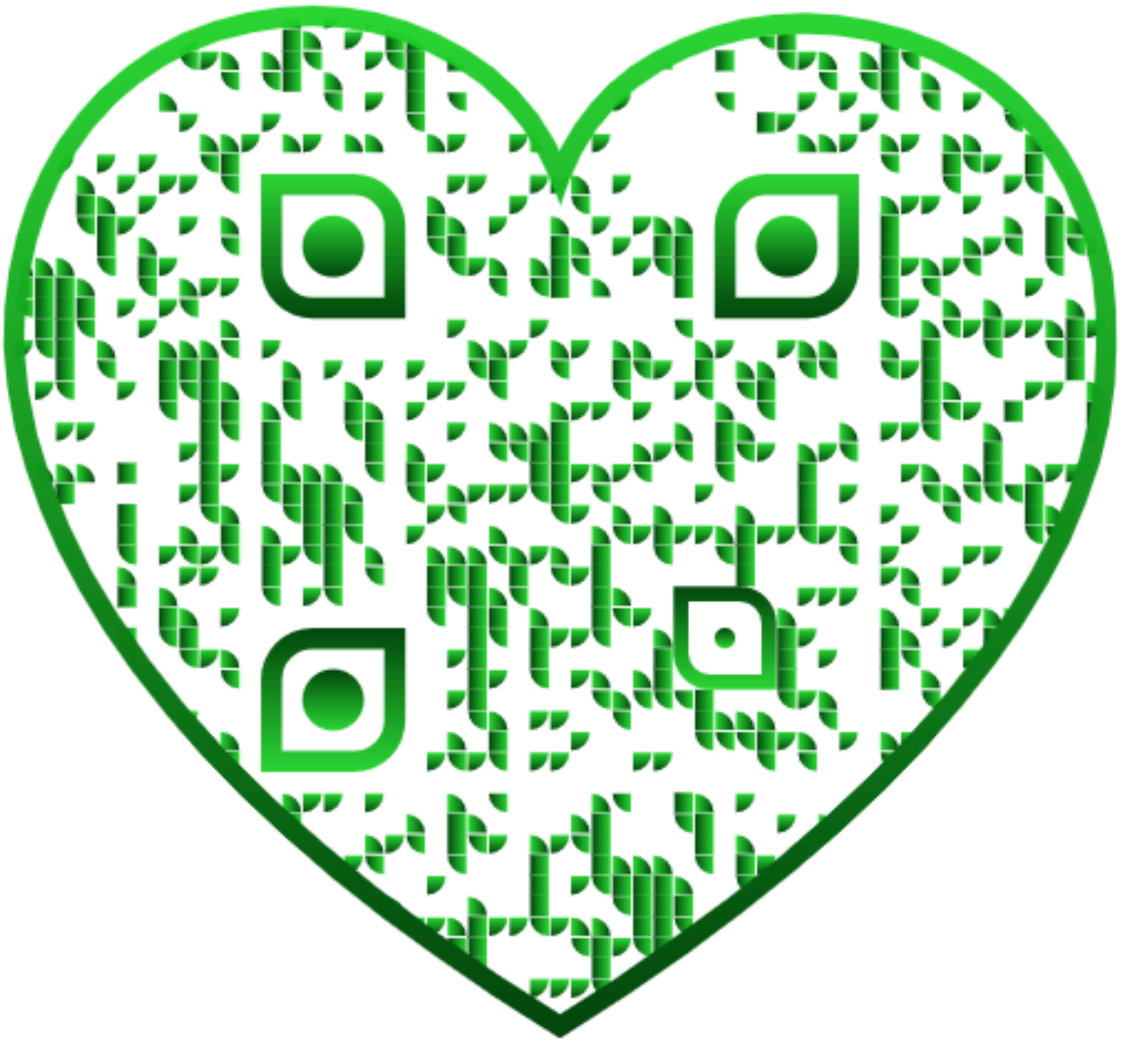
طب بشري



HELMINTHOLOGY

(1)TREMATODA

Sporocyst stage of all Trematode

☺Identify:

Sporocyst stage of all Trematode

Redial stage of all Trematode except Schistosoma

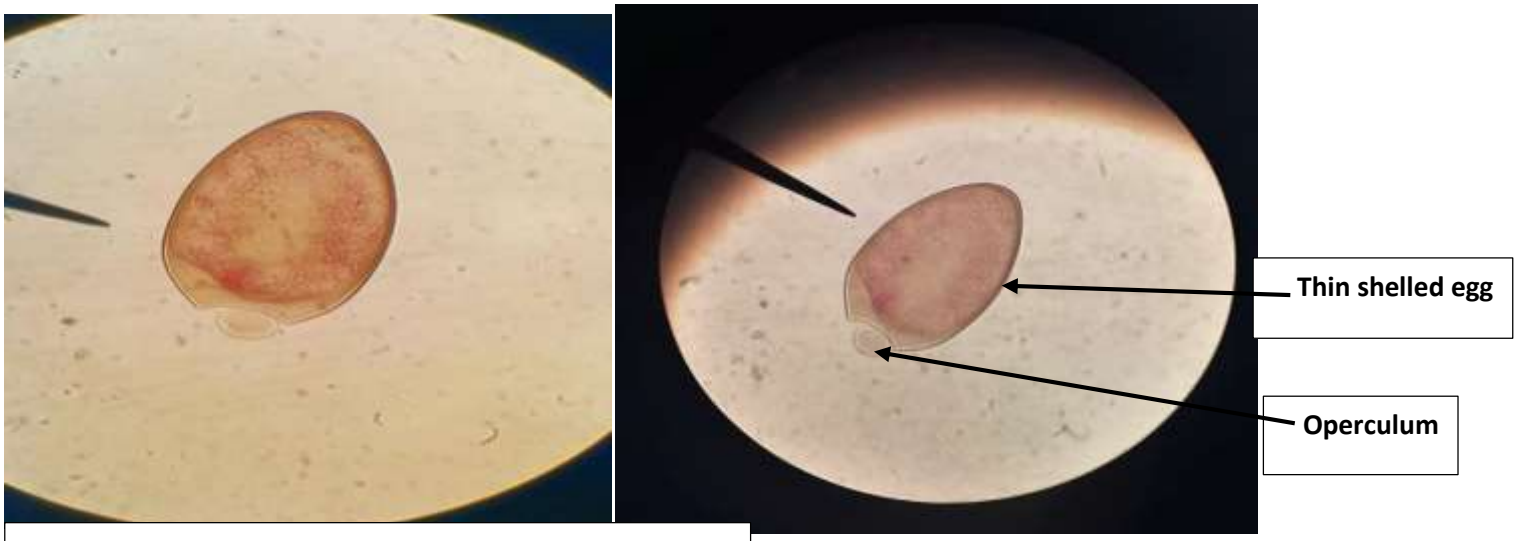
☺Identify:

Redial stage of all Trematode except Schistosoma

Egg of Fasciola species

Identify:

Egg of Fasciola species **without** an operculum



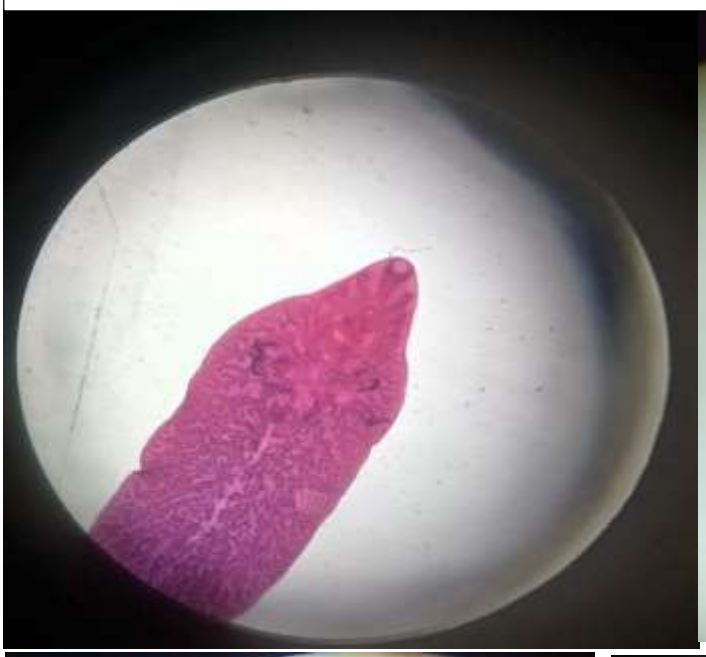
☺Identify:

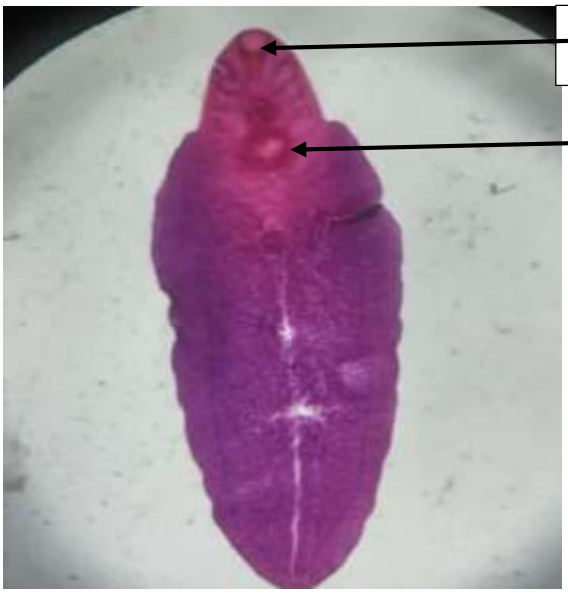
Egg of Fasciola species **with** an operculum

☺Morphology:

- Shape: oval, operculated and thin shelled.
- Color: yellowish brown in color
- Content :immature ovum

Adult of Fasciola hepatica





☺Identify:

Adult of Fasciola hepatica

☺Morphology:

Adult has 2 suckers (oral & ventral)

Adult of Fasciola hepatica

black area indicate genital organ (uterus)

☺Identify:

Adult of Fasciola hepatica

☺Morphology:

Color: grayish-brown

Content: uterus

Adult of Fasciola hepatica

☺Identify:

Adult of Fasciola hepatica

☺Morphology:

Lateral margins: convering

Suckers: equal

Shoulders: more prominent

Adult of fasciola gigantica

☺Identify:

Adult of fasciola gigantica

☺Morphology:

Lateral margins: parallel

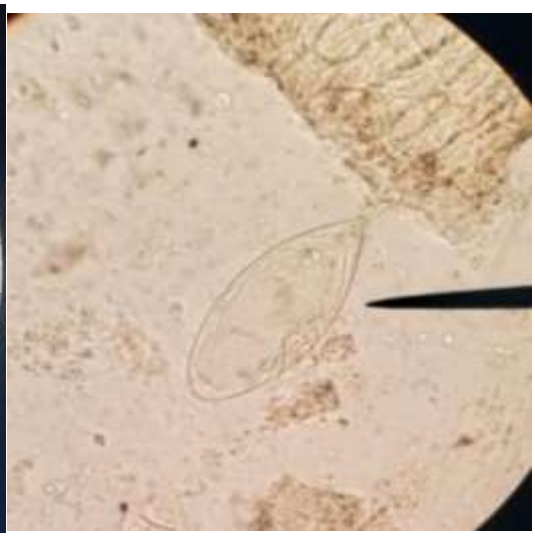
Suckers: oral smaller than ventral

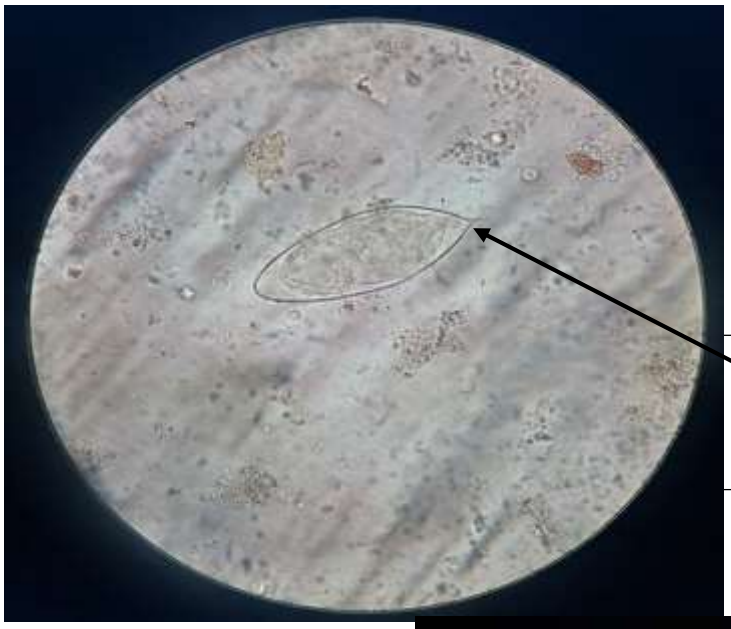
Shoulders: less prominent

Adult stage of *Fasciola* spp.: differences

Name	***Fasciola hepatica***	***Fasciola gigantica***
Lateral margins	Converging	Parallel
Suckers	Equal	Oral smaller than ventral
Shoulders	More prominent	Less prominent

Egg of Schistosoma haematobium





Terminal spine

☺Identify:

Egg of Schistosoma haematobium **in urine**

☺Morphology:

-shape: oval

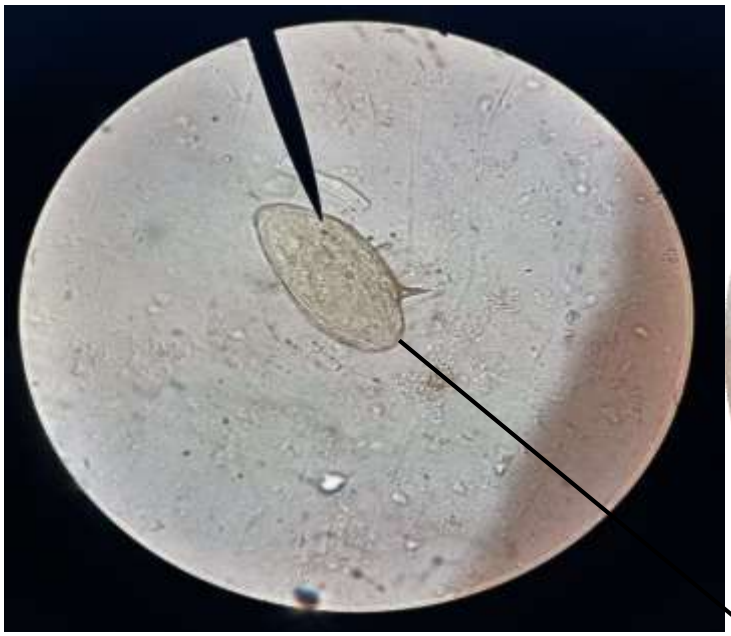
-spine: terminal

-color: translusent

-content: meracidium

This's another slide for haematobium egg, but it doesn't show a terminal spine

Egg of Schistosoma mansoni



Lateral spine

☺Identify:

Egg of Schistosoma mansoni **in feces**

☺Morphology:

-shape: oval

-spine: lateral

-color: translusent

-content: meracidium

Egg of Schistosoma japonicum

☺Identify:

Egg of Schistosoma japonicum

☺Morphology:

-shape: rounded

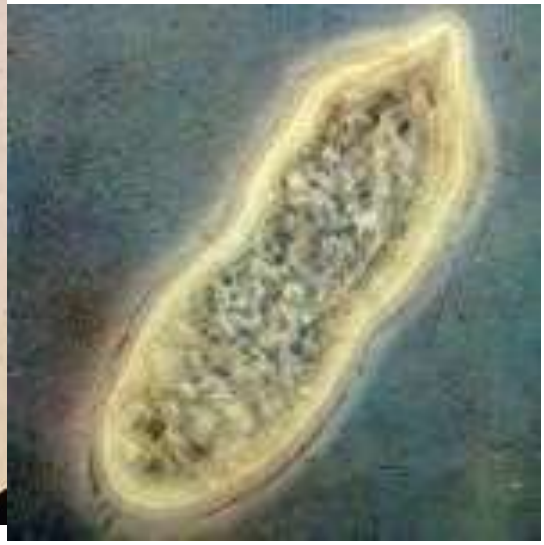
-spine: has no spine

-color: translusent

-content: meracidium

	Schistosoma mansoni	***Schistosoma haematobium***	***Schistosoma japonicum***
Shape:	Oval	Oval	almost round.
Spine:	Lateral	Terminal	**Has no spine**
Content:	Miracidium	Miracidium	Miracidium
Color:	Translucent	Translucent	Translucent

Miracidium of Schistosoma species



☺Identify:

Miracidium of Schistosoma species

Furcocercous Cercaria of Schistosoma species

Has bifurcued tail

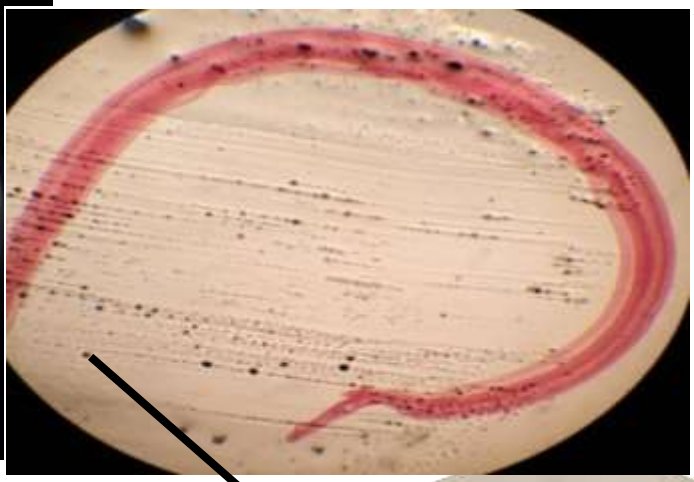
☺Identify:

Furcocercous Cercaria of Schistosoma species

☺Morphology:

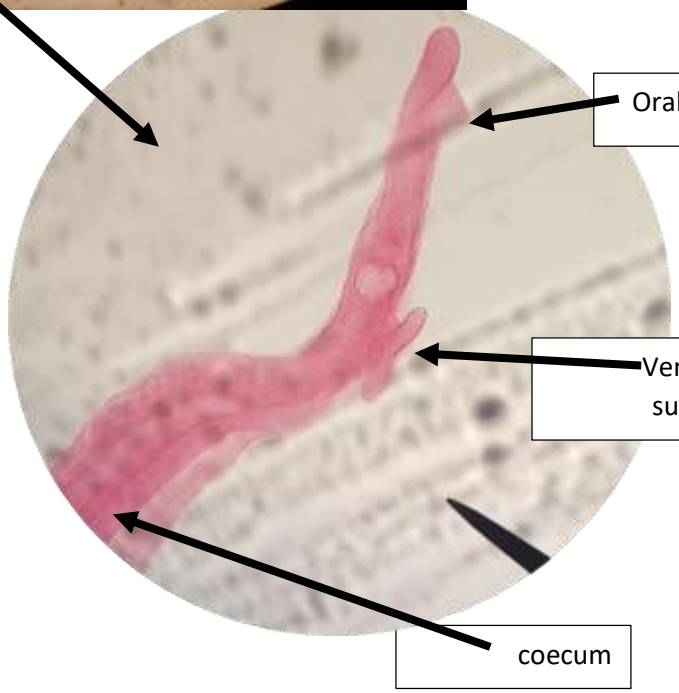
Has bifurcued tail

Adult male of Schistosoma species



☺Identify:

Adult **male** of Schistosoma species



☺Morphology:

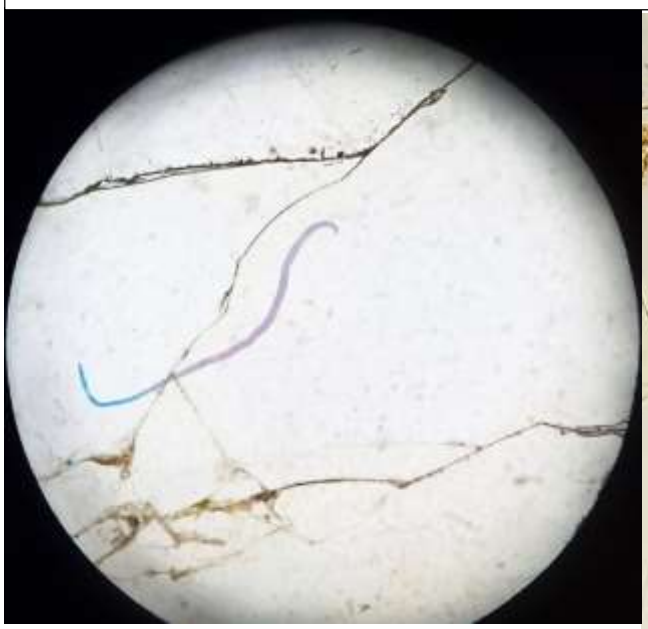
-Short and flattened.

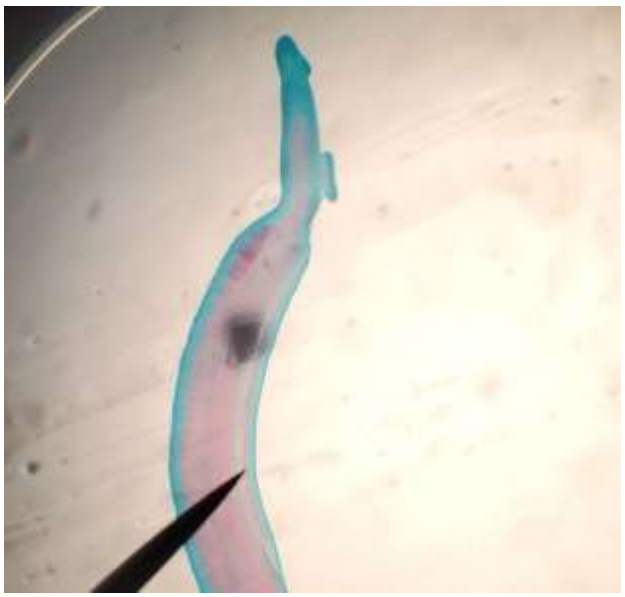
-Suckers are well-developed.

- Posterior end is curved ventrally to form Gynaecophoric canal.

-Cuticle provided with tubercle

Adult female of schistosoma species





☺Identify:

Adult **female of <u>Schistosoma</u> species**

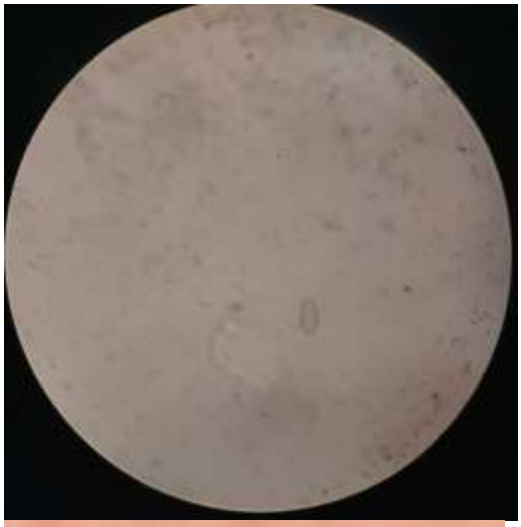
☺Morphology:

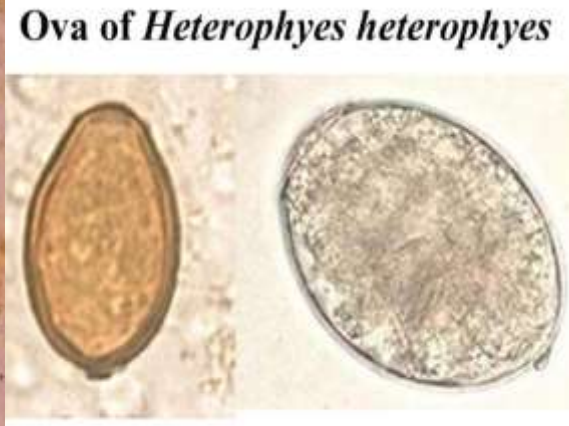
Longer, slender and thinner than male

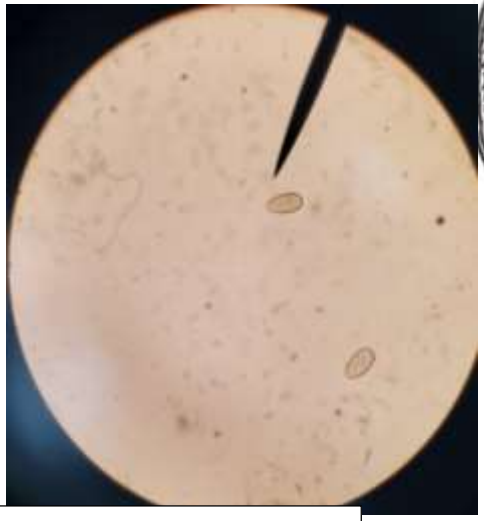
-

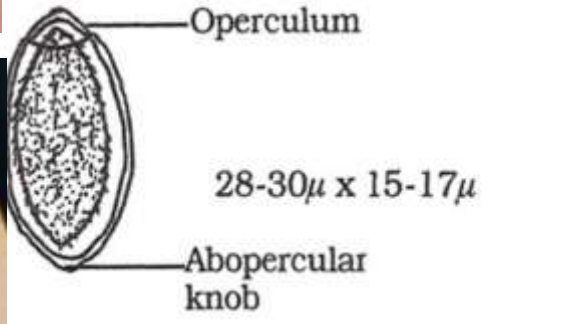
- Suckers are weakly developed
- Cylindrical with smooth cuticle

Egg of Heterophyes heterophyes









☺Identify:

Egg of Heterophyes heterophyes

☺Morphology:

-Shape: Oval, thick shelled, operculated at one pole and knob at other pole.

-Color: Yellowish brown in color.

-Content: Miracidium.

Adult worm of Heterophyes heterophyes

☺Identify:

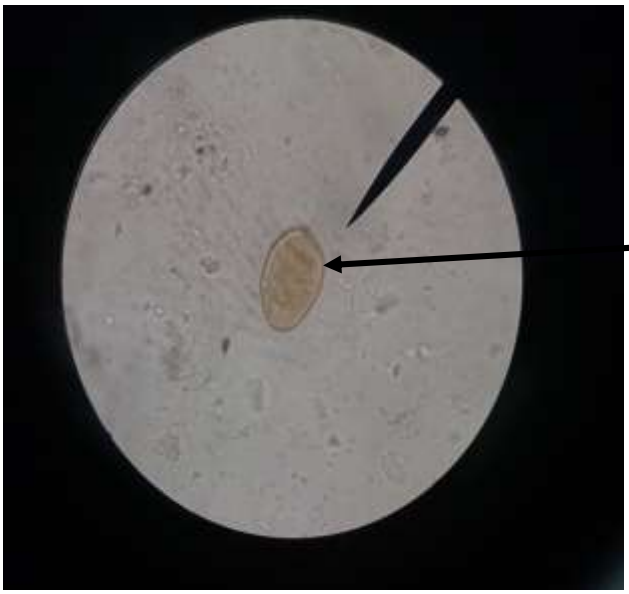
Adult worm of Heterophyes heterophyes

☺Morphology:

-Smallest intestinal flukes worms.

-Shape: pear shaped with 3 suckers (Oral, ventral,Genital).

Egg of Paragonismus westermani



☺Identify:

Egg of Paragonismus westermani

☺Morphology:

-Shape: Oval, thick shelled, operculated at one pole and thickened at other pole.

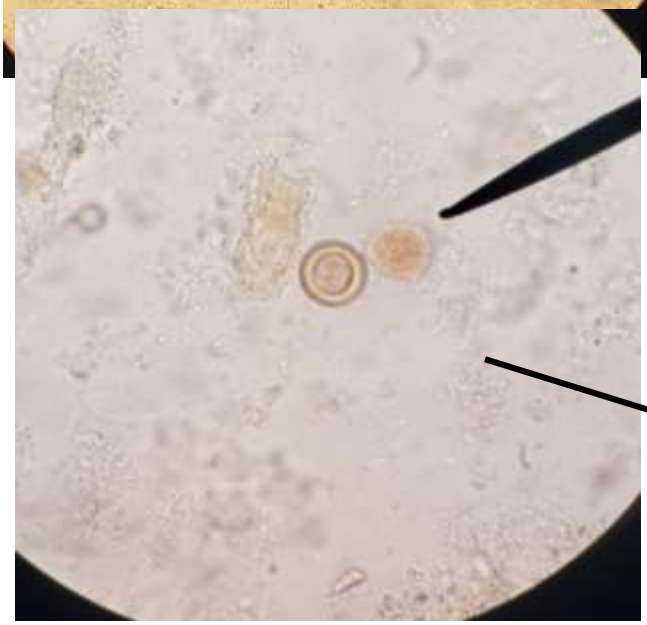
-Color: brown.

-Content: immature ovum.

HELMINTHOLOGY

(2)CESTODA

Egg of Taenia species



Corona radiate(shell)

Hexacanth onchosphere

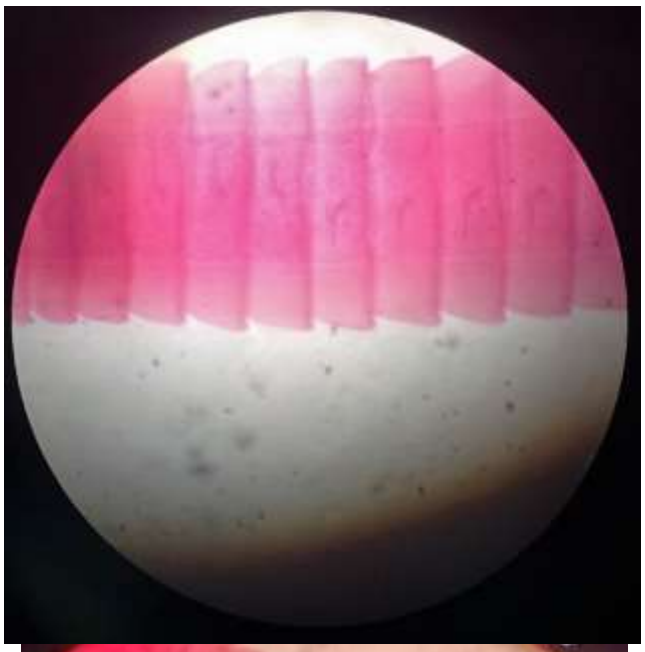
☺Identify:

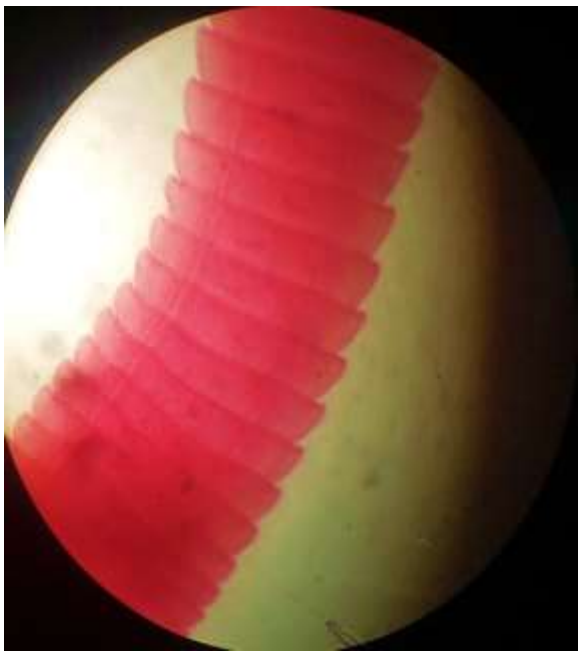
Egg of Taenia species

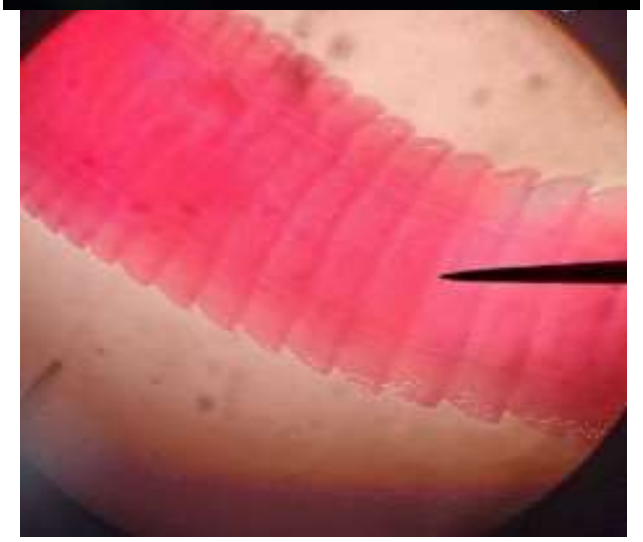
☺Morphology:

-Shape: Rounded with radially striated shell.
-Color: Yellowish brown.
-Content: Hexacanth onchosphere (6-hooked embryo).

Immature segments of Taenia species



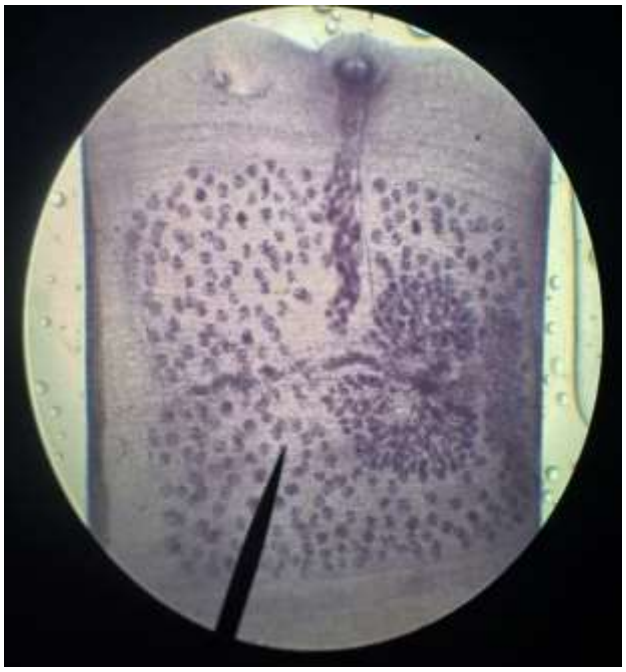


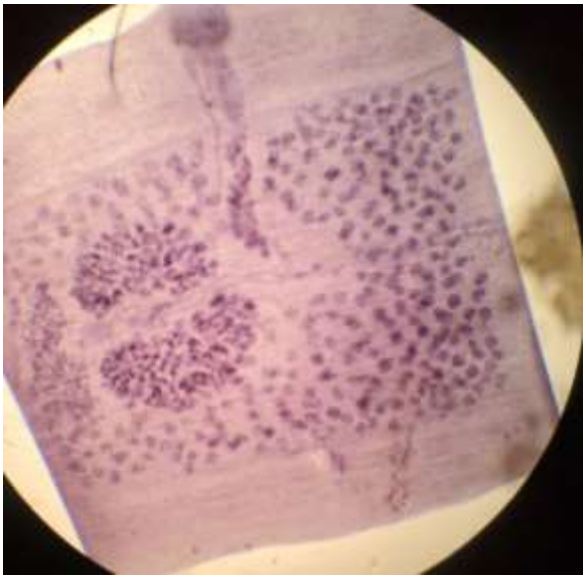


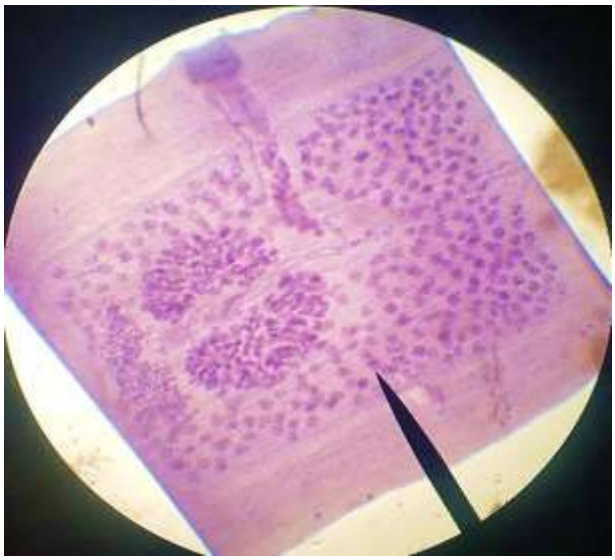
☺Identify:

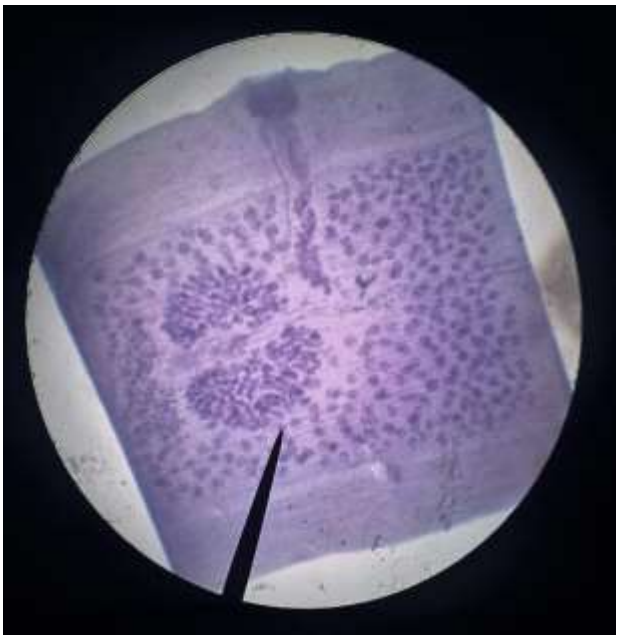
Immature segments of Taenia species

Mature segment of Taenia species





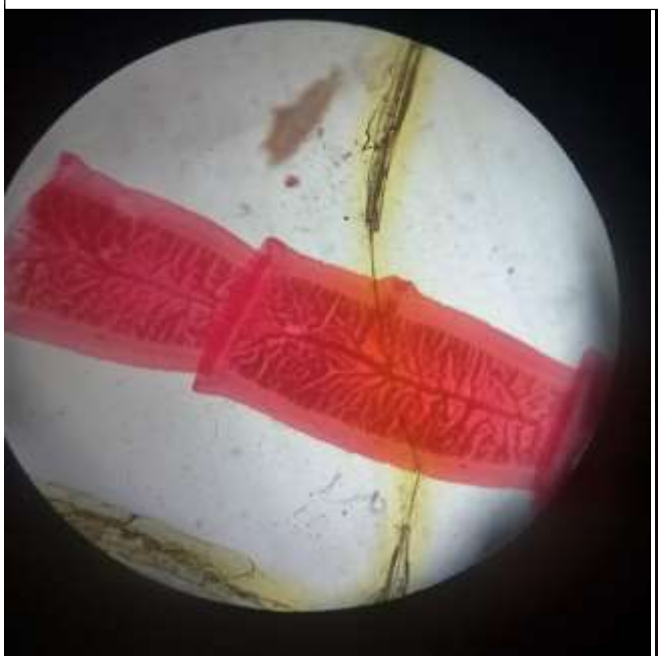


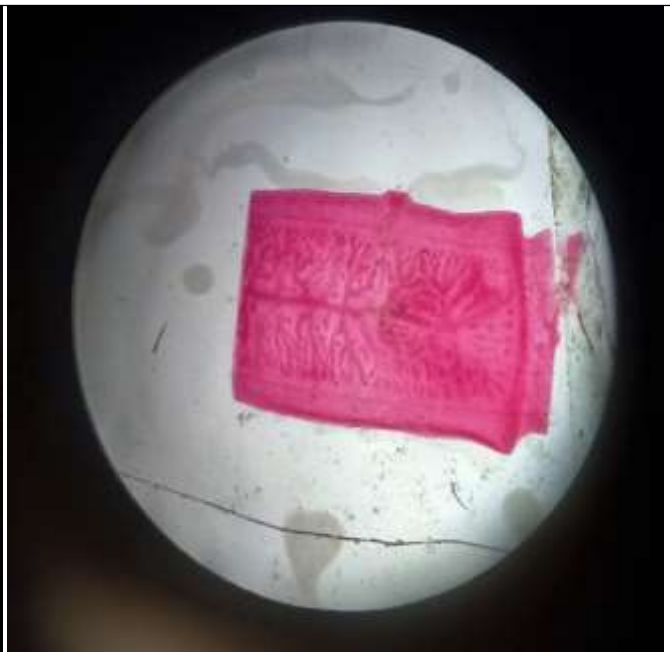


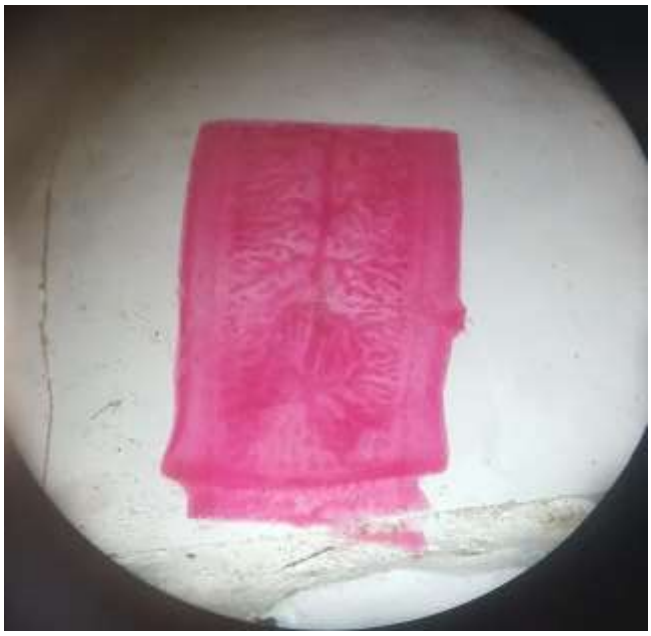
☺Identify:

Mature segment of Taenia species

Gravid segment of Taenia species



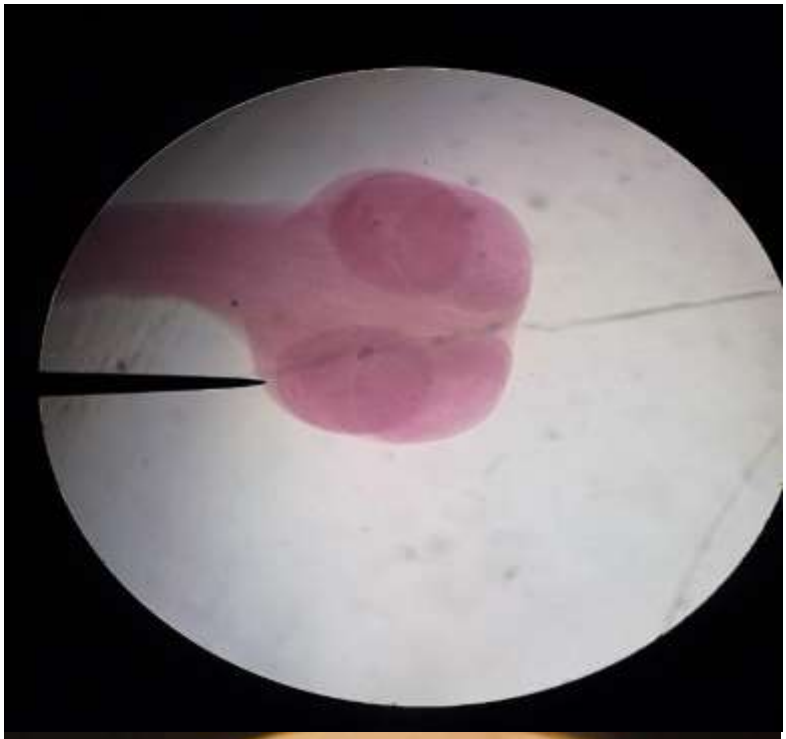




☺Identify:

gravid segment of Taenia species

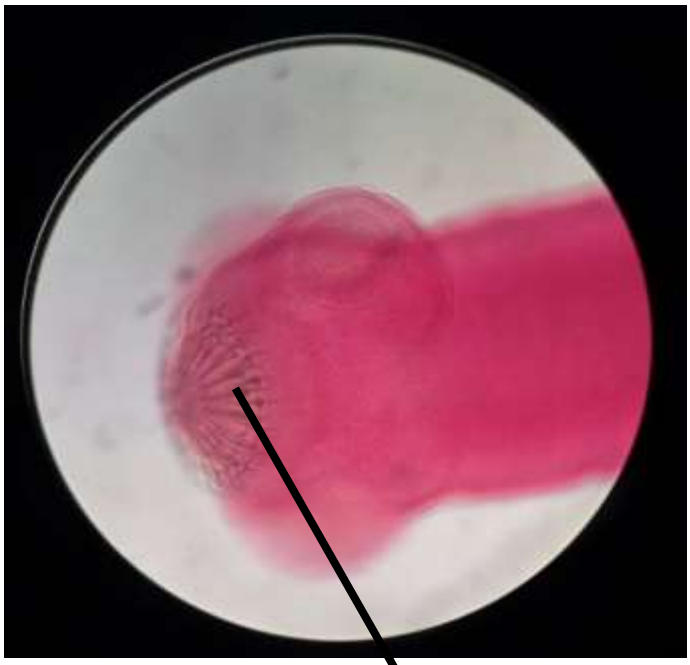
Scloex of Taenia saginata

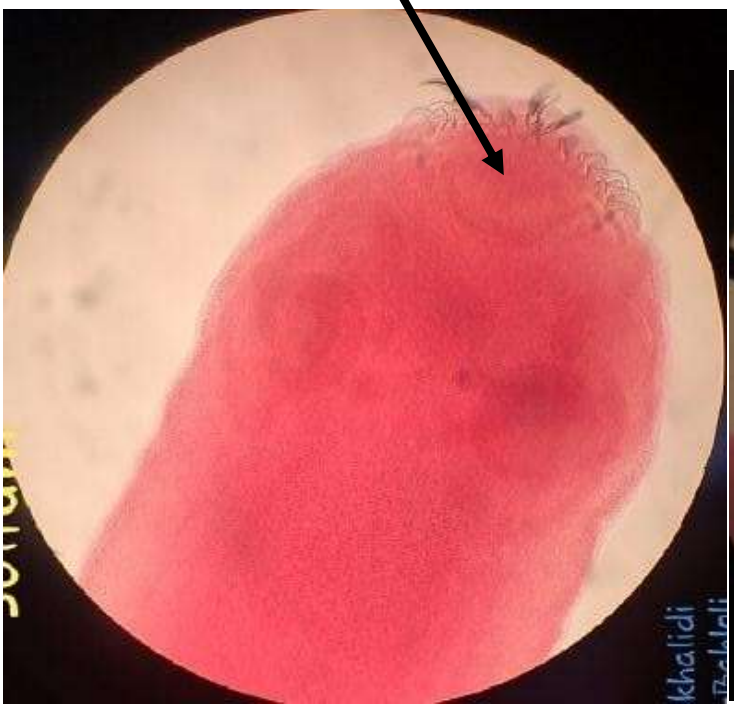


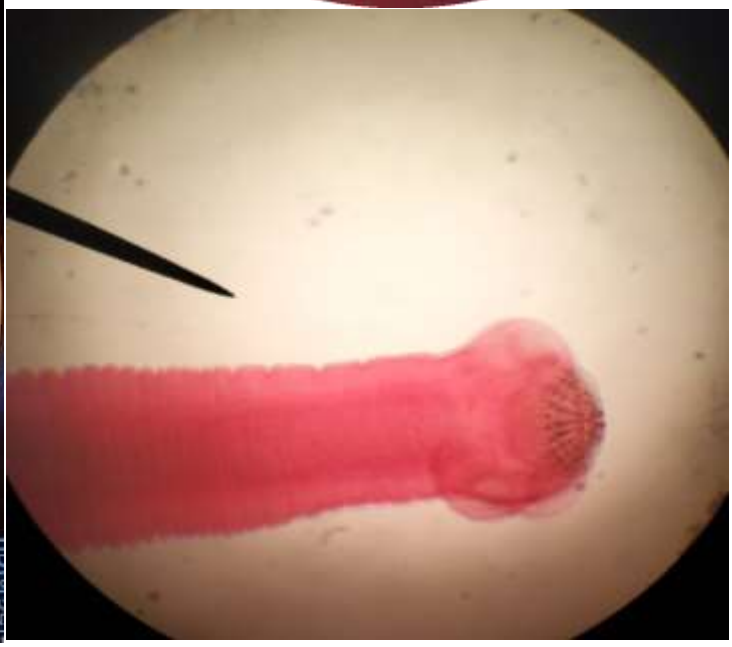
☺Identify:

Scloex of Taenia saginata

Scolex of Taenia solium







☺Identify:

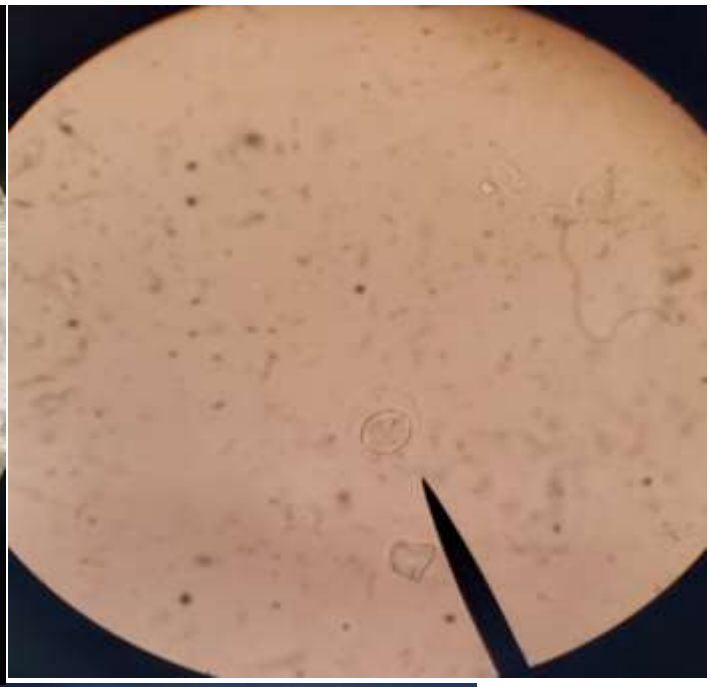
Scolex of Taenia solium

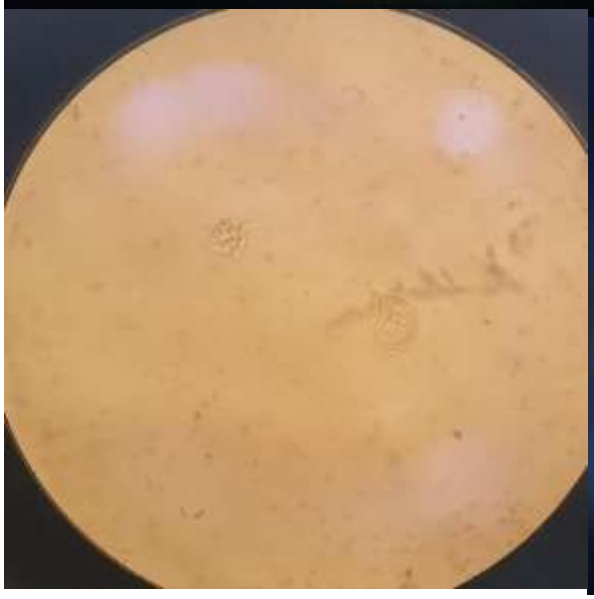
Adult worm of Taenia species

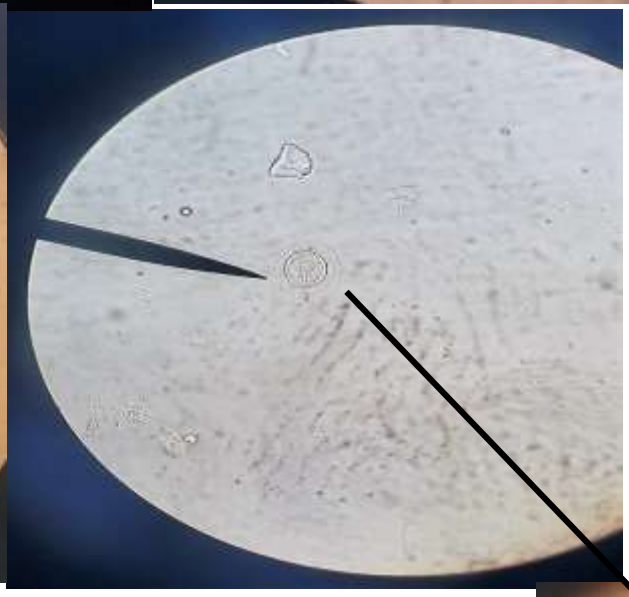
☺Identify:

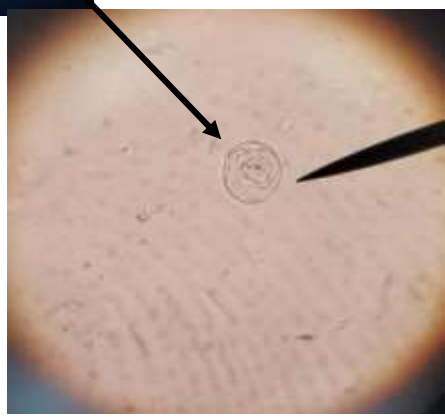
Adult worm of Taenia speceis

Egg of Hymenolepis nana





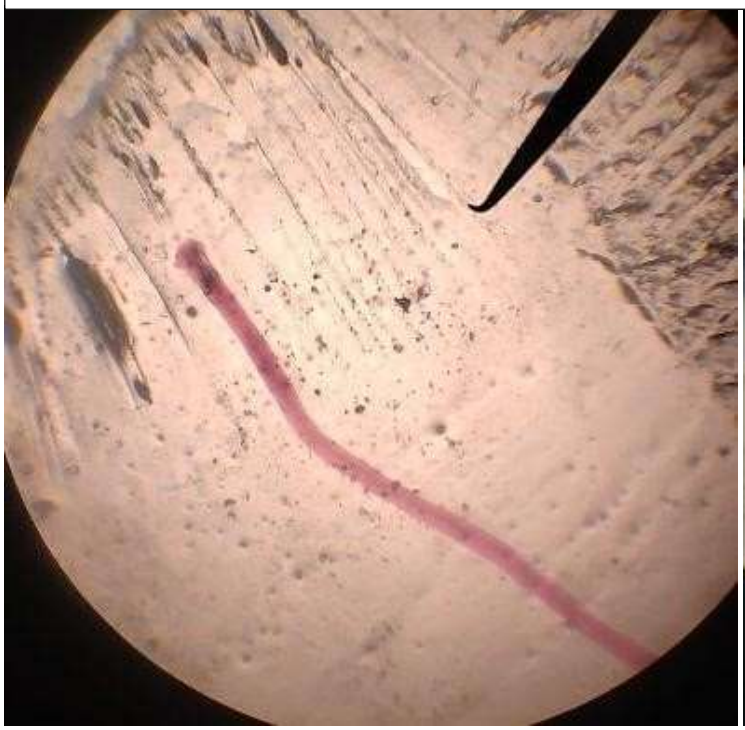


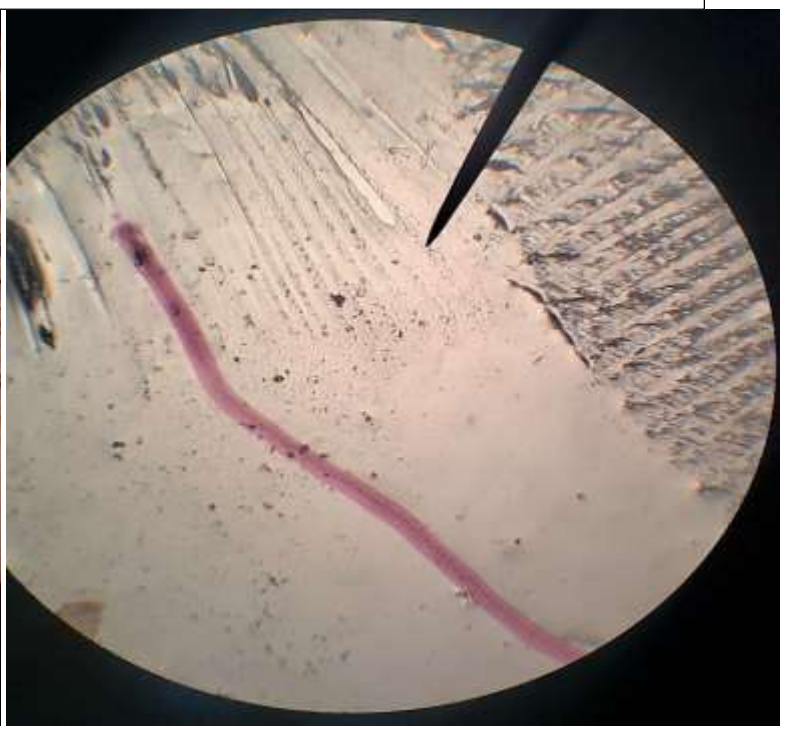


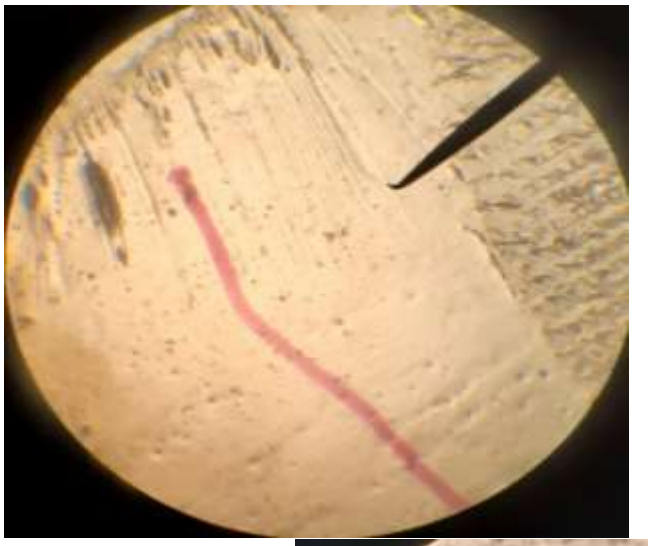
☺Identify:

Egg of Hymenolepis nana

Adult warm of Hymenolepis nana

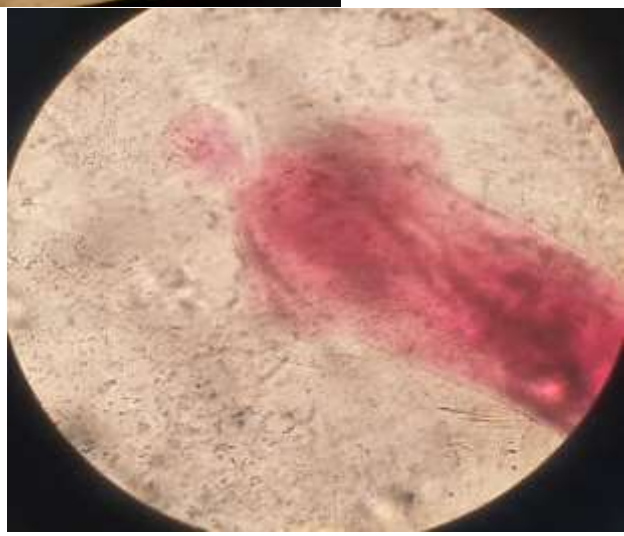




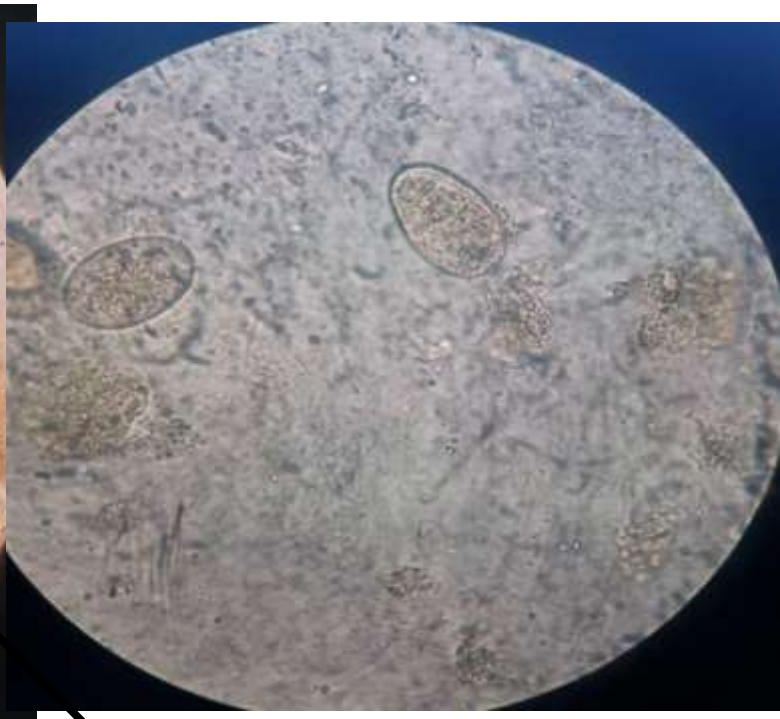


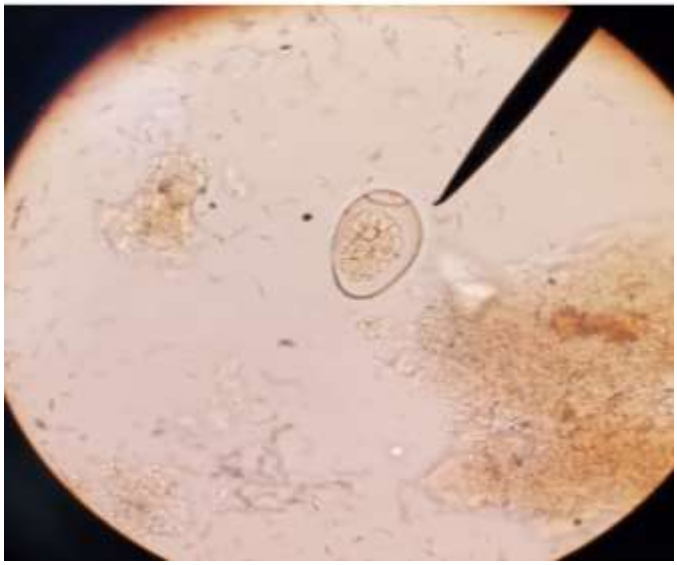
☺Identify:

Adult warm of Hymenolepis nana



Eggs of Diphyllobothrium latum

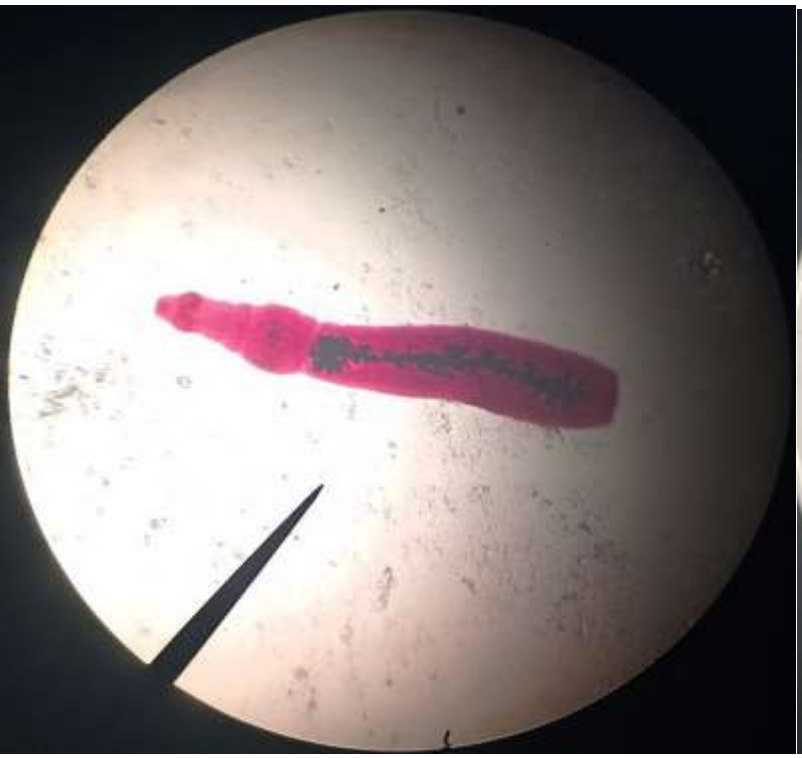


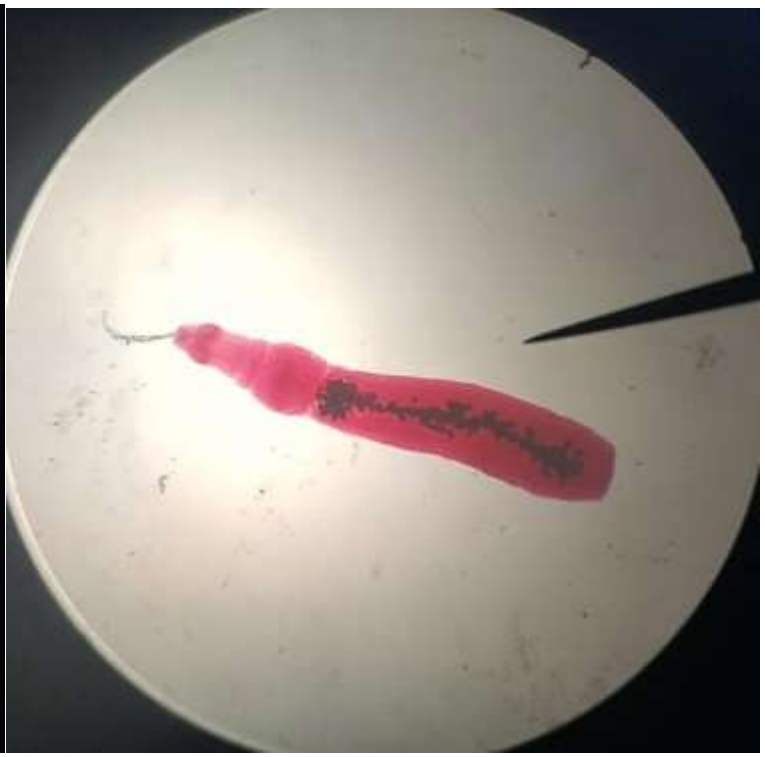


☺Identify:

Eggs of Diphyllobothrium latum

Adult warm of Echinoccocus granulosus





☺Identify:

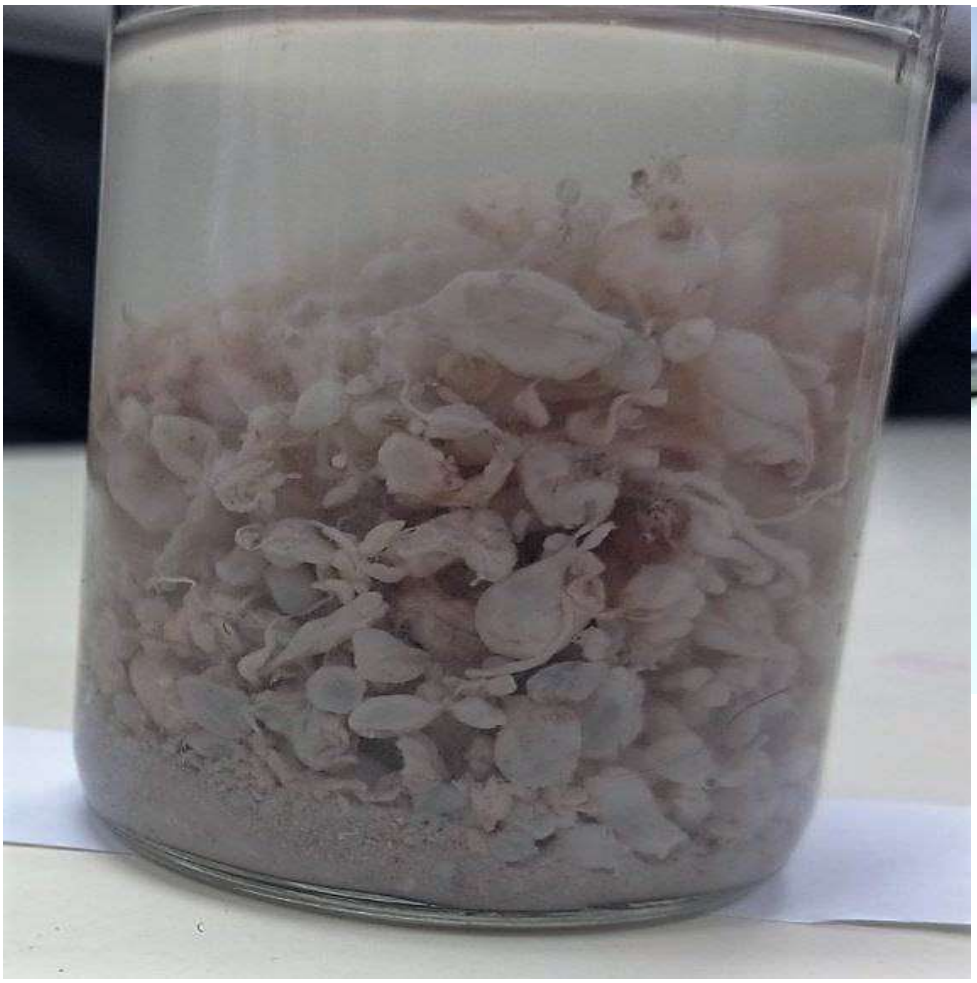
Adult warm of Echinoccocus granulosus

Hydatid cyst of Echinoccocus granulosus

☺Identify:

Hydatid cyst of Echinoccocus granulosus

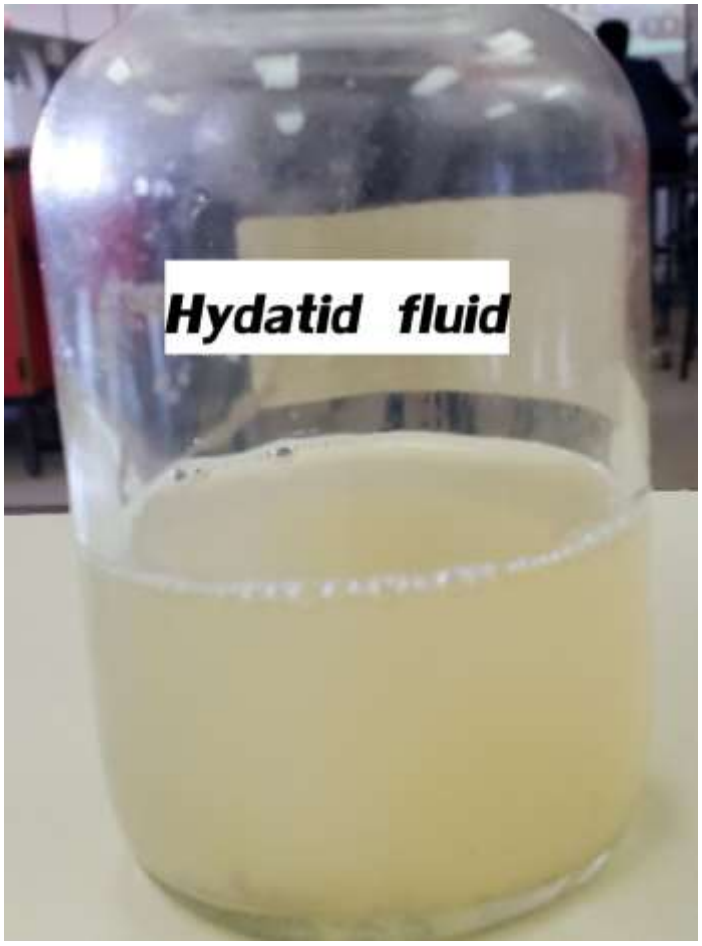
Hydatid sand of Echinoccocus granulosus



☺Identify:

Hydatid sand of Echinoccocus granulosus

Hydatid fluid of Echinoccocus granulosus



☺Identify:

Hydatid fluid of Echinoccocus granulosus